



Reporting Guidelines

Dataflow 5: Energy Security

under Regulation (EU) 2018/1999 on Governance of the Energy Union and Climate Action

Implementing Regulation 2022/2299

Annex 5

(....)

To insert on the technical guidelines :

1.4.2 The process for pre-filling, pre-loading and post-filling of data

The following tables of this dataflow rely (partially) on data that is either pre-filled, post-filled or pre-loaded.

Table	Type of filling	Source(s) of data
Annex 5, table 2	Pre-filling	Eurostat energy balances ⁽¹⁾

⁽¹⁾ For the indicator “Energy dependence from third countries by fuel type” a specific calculation (code nrg_ind_id3cf) was made based on the energy balances. Information can be found here: [Statistics | Eurostat](#)

In the paragraphs below, the process for integrating this data in the progress report is described.

Eurostat energy balances

Reporting countries should transmit energy data as specified in Annex B of Regulation (EC) No 1099/2008 on energy statistics. The latest version of annual energy questionnaires that should be used for official data transmissions and accompanying reporting instructions can be found at: [Methodology - Eurostat](#).

The Commission plans to pre-fill relevant tables in the e-platform in February in the year the NECPR is due (year X with data that were disseminated by Eurostat by the end of January in year X. In general this means data collections in the energy domain with mandatory reporting deadlines by the end of November (year X-1). To enable pre-filling, reporting countries need to respect mandatory deadlines and ensure high quality of reported statistics, with no gaps and no errors in the reported data.

Data cannot be altered in the progress reporting, only through the primary process established for the source data.

If the data is submitted by the Member State through the primary process, the reporting obligation under Article 17 will also be considered fulfilled.

1. THEMATIC GUIDELINES FOR REPORTING - REPORTING INFORMATION REQUIRED UNDER ART 4. ENERGY SECURITY DIMENSION

This section provides the step-by-step guidelines for reporting. This includes visual guide **of how and where** to report in ReportENER, as well as information on the **purpose of reporting** and guidance on **what to report**. This is structured as follows:

- Purpose,
- Guidance (screenshot and data format included),
- Good examples (where available),
- Not recommended (where available),
- Level of obligation (Mandatory, Mandatory if applicable, Mandatory if available, Voluntary).

2. Introduction

This section provides guidance for reporting information on the energy security dimension (Article 4), according to Annex V of the Implementing Regulation. It includes:

- Table 1: Details about national objectives, targets and contributions
- Table 2: Progress towards implementation of quantifiable national objectives and targets
- Table 3: Progress towards implementation of non-quantifiable national objectives and targets

These reporting requirements derive from Article 22 of the Energy Union Governance Regulation which is specifically dedicated to NECPR reporting on energy security and requires Member States to include information on implementation of the following objectives and measures: diversification of energy sources and supply, reducing dependency from third countries, resilience/reliability, and flexibility.

The following picture shows an overview of the different web-forms used to report the information required in the tables of Annex V to the Implementing Regulation.

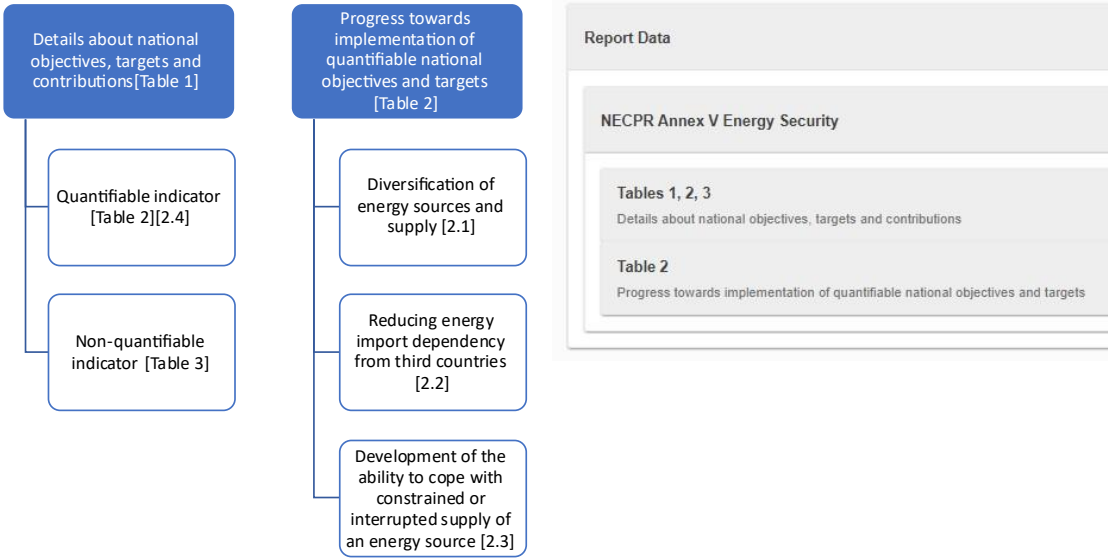


Figure 1: overview of Annex V data flows

3. Annex V, Table 1: Details about national objectives, targets and contributions

National energy security targets/objectives

Name *	1.1	100
Description *	1.2	1500
Art. 22 relevance *	1.3	80
	1.3 (other)	
Target Year *	1.4	
Status *	1.5	
Policies which drove setting the objective (where relevant)		
Union policy *	1.6	200
	1.6 (other)	
National policy	1.7	200
Entity responsible for achieving the objective *	1.8	80
Energy sources and fuels covered *	1.9	80
	1.9 (other)	

Add Cancel

Figure 2: webform for Annex 5 - table 1

3.1.1. FIELD 1.1: Name of national target/ objective

Purpose

The purpose of this field is for the Member State to identify the national targets/objectives set by the Member State with regards to Energy Security.

The aim is to provide a series of national objectives aligned to the four areas specified by Article 22 of the Governance Regulation.

Article 22: Member States have to include in the integrated national energy and climate progress reports information on the implementation of:

- national objectives for the diversification of energy sources and supply;
- where applicable, national objectives with regard to reducing energy import dependency from third countries;
- national objectives for the development of the ability to cope with constrained or interrupted supply of an energy source, including gas and electricity;
- national objectives with regard to increasing the non-fossil flexibility of the national energy system, including the respective specific contributions of both demand side response and energy storage to that objective, which should also be reflected in their integrated national energy and climate plans in accordance with article 19f of Regulation (EU) 2019/943.

Guidance, including format of the data

The Member States should state the names of the national target/objectives. This should include objectives provided in the NECP. Member states should include where relevant:

Article 22(a): national objectives for the diversification of energy sources and supply

- Include the national objectives in maintaining security of supply standard for natural gas (Regulation (EU) 2017/1938: Security of gas supply regulation, Article 5), in particular the N-1 criterium.

Article 22(b): national objectives with regard to reducing energy import dependency from third countries

- Include information on the implementation of the network codes and the Guidelines adopted by the Commission from ENTSO for Gas report (Regulation (EU) No 2024/1789: Regulation on conditions for access to the natural gas transmission networks-Article 8)- Frequency: annual

Art. 22(c): objectives on the development of the ability to cope with constrained or interrupted supply of an energy source, including gas and electricity

Include the objectives of the risk preparedness plans, preventive action plans and emergency plans (Regulation (EU) 2019/941: Risk-preparedness in the electricity sector and Regulation (EU) 2017/1938: Security of gas supply regulation). This submission has to be updated every: 4 years

- Include the objectives associated with Directive (EU) 2022/2555: security of network and information systems. This submission has to be updated every 2 years

Include indicators about structural congestion and other major physical congestions between and within bidding zones from ENTSO for Electricity report (Regulation (EU) 2019/943 Electricity market regulation-Article 14). This submission has to be updated every 3 years;

Include indicators on the implementation of the network codes and the Guidelines adopted by the Commission from ENTSO for gas report (Regulation (EU) No 2024/1789: Regulation on conditions for access to the natural gas transmission networks-Article 8). This submission has to be updated every year.

Member States already submit annually to the EC data collected for all emergency stocks (Council Directive 2009/119/EC: Oil stocks Directive, Article 6). Therefore, this information is not required in this reporting.

Data format: text, 100 chars.

Good example – Increase in Germany’s use of LNG

“Diversification of supply sources and transport routes represents a key pillar of Germany’s gas supply. The gas industry is undertaking significant efforts to expand the natural gas infrastructure (lines and reservoirs) in line with demand and adapt it to the changing market environment as well as diversify the natural gas supply yet further for the purposes of security of supply and foreseeable exploitation of fields in the North Sea. As such, there are advanced plans for the creation of a German LNG import infrastructure in Brunsbüttel, Stade and Wilhelmshaven. The commissioning of German LNG terminals will expand and strengthen the already broad diversification of Germany’s sources of supply and pipeline transport routes. At the same time, the natural gas industry will decide in the German and European liberalised gas market on the sources of supply of its natural gas imports. The extent to which and under what conditions the LNG infrastructure will be able to gain importance in the future for the importation of hydrogen remains to be seen.”

Level of obligation

Mandatory

3.1.2. FIELD 1.2: Description

Purpose

The purpose of this field is for the Member State to give context on the national target/objective.

The following questions should be answered in the short description:

- Which problem is the target/objective addressing?
- What is the aim of the target/objective?
- What are the actions taken?
- How is it implemented?

Guidance, including format of the data

The description needs to provide a condensed explanation of the target/ objective. This should be done as specific as possible.

The description should include any qualitative and quantitative targets used to monitor the objective

The description will be short and therefore will not include all the details. It is therefore recommended to make appropriate use of the references/links to direct users to documents and websites with a more detailed description of the national target/objective.

Data format: text, 1500 chars.

Level of obligation

Mandatory

3.1.3. FIELD 1.3: Relevance to Article 22

Purpose

This is a drop-down selection field with the purpose of clearly matching the national target/ objectives to Article 22 reporting requirements.

Guidance, including format of the data

Member States have to select from the following objectives (additional objectives may be added and specified under ‘other’):

- diversification of energy sources and supply
- reducing energy import dependency from third countries
- development of the ability to cope with constrained or interrupted supply
- flexibility of the national energy system
- other

Data format: text (drop-down), text (for other), 80 chars.

Level of obligation

Mandatory, if applicable (i.e. Member States are required to provide the information if the relevant national objectives and targets align with Article 22).

3.1.4. FIELD 1.4: Target year

Purpose

The purpose of this field is for the Member State to identify the reference year by which the target must be achieved.

Guidance, including format of the data

Member States have to provide the target year set, if applicable.

Data format: number (integer, drop-down).

Level of obligation

Mandatory, if applicable (i.e. Member States are required to provide the information if the relevant national objectives and targets have a target year).

3.1.5. FIELD 1.5: Status

Purpose

The purpose of this field is for the Member State to report on the current status of implementation of the national target/ objective.

Guidance, including format of the data

Member States have to select from the following categories for each target: planned; adopted; implemented; expired.

Data format: text (drop-down).

Level of obligation

Mandatory

3.1.6. FIELD 1.6 & 1.7: Policy which drove setting the objective (where relevant)

Purpose

The purpose of this field is for the Member State to capture the policy which drove setting the national target/ objective (where relevant).

Guidance, including format of the data

Member States have to report on whether there is a Union policy which drove setting the objective and/or National policy (including Legal reference).

In the case of Union policy drive, Member States have to select a policy/policies from the list provided below, or select other and specify the name of the Union policy.

In the case of National policy, Member States have to report on National law or document(s) defining the objective.

Data format: Union policy: text (drop-down), other (text, 200 chars), National policy: text, 200 chars.

Short title (for drop-down)	Full title
Gas Storage Regulation	Regulation (EU) 2022/1032 with regard to gas storage
Regulation on risk-preparedness in the electricity sector	Regulation (EU) 2019/941 on risk-preparedness in the electricity sector
Security of gas supply Regulation	Regulation (EU) 2017/1938 of the European Parliament and of the Council concerning measures to safeguard the security of gas supply
Network code on electricity emergency and restoration	Commission Regulation (EU) 2017/2196 establishing a network code on electricity emergency and restoration
Oil Stocks Directive	Council Directive 2009/119/EC of 14 September 2009 imposing an obligation on Member States to maintain minimum stocks of crude oil and/or petroleum products
Directive on safety of offshore oil and gas operations	Directive 2013/30/EU on safety of offshore oil and gas operations
NIS2 Directive	Directive (EU) 2022/2555 on measures for a high common level of cybersecurity across the Union
CER Directive	Directive (EU) 2022/2557 of the European Parliament and of the Council of 14 December 2022 on the resilience of critical entities and repealing Council Directive 2008/114/EC
Other	Other

Level of obligation

Mandatory, if applicable (i.e. Member States are required to provide the information if the relevant national objectives and targets have been driven by a policy).

3.1.7. FIELD 1.8: Entity responsible for achieving the objective

Purpose

The purpose of this field is for the Member State to capture the entity responsible for achieving the objective.

Guidance, including format of the data

Member States have to report on the name and responsibilities of the Entity responsible for achieving the objective.

Data format: text, 80 chars.

Level of obligation

Mandatory

3.1.8. FIELD 1.9: Energy sources and fuels covered

Purpose

The purpose of this field is for the Member State to capture the energy sources and fuels covered.

Guidance, including format of the data

Member States have to select from the following options (more than one option can be selected, additional energy sources and fuels may be added and specified under ‘other fuels’): whole system, electricity, gas, petroleum products, nuclear, other fuels.

Data format: text (drop-down), other (text, 80 chars)

Level of obligation

Mandatory

4. Annex V, Table 2: Progress towards implementation of quantifiable national objectives and targets

Diversification of energy sources and supply

Diversification of energy sources and supply
Primary energy production by source

Category	2.1.1 2020	2.1.2 2021	2.1.3 Target Value	2.1.4 Target Year	
Coal [TJ]	0.000	0.000			
Natural Gas [TJ]	190.714	167.416			
Other fossil fuels and wastes [TJ]	40,104.98	40,916.34			
Oil and petroleum products [TJ]	0.000	0.000			
Renewables and biofuels [TJ]	167,218.242	174,396.035			
Nuclear Heat [TJ]	350,477.656	511,761.691			
Imports [TJ]	3,218,085.713	3,404,252.173			
Exports [TJ]	1,328,878.198	1,495,714.850			

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Figure 3: Webform for Annex 5 - table 2.1

4.1.1. Table 2.1: Diversification of energy sources and supply

Guidance, including format of the data

Field 2.1.1 & 2.1.2: X-3 and X-2 fields

Data format: number

Values for will be pre-filled based on Eurostat energy balance data when available. Details on this process can be found in section 1.4.2.

Field 2.1.3 & 2.1.4: Target value / year fields

Data format: number

Member States to report the value of the target and the relevant year the target should be achieved, where quantified targets associated with the metrics are present.

Level of obligation

Mandatory, if applicable

4.1.2. Table 2.2: Reducing energy import dependency from third countries

Reducing energy import dependency from third countries

Reducing energy import dependency from third countries

Energy dependence from third countries by fuel type

Category	2.2.1 2020	2.2.2 2021	2.2.3 Target Value	2.2.4 Target Year
Overall [%]				
Coal [%]				
Natural Gas [%]				
Other fossil fuels and wastes [%]				
Oil and petroleum products [%]				
Combustible renewables (biofuels) [%]				
Electricity and heat (including nuclear) [%]				

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Figure 4: webform for Annex V table 2.2

Guidance, including format of the data

Field 2.2.1 & 2.2.2: X-3 and X-2 fields

Data format: number

Values for will be pre-filled based on Eurostat energy balance data when available. Details on this process can be found in section 1.4.2.

Field 2.1.3 & 2.1.4: Target value / year fields

Data format: number

Member States to report the value of the target and the relevant year the target should be achieved, where quantified targets associated with the metrics are present.

Level of obligation

Mandatory, if applicable

4.1.3. Table 2.3.1: Development of the ability to cope with constrained or interrupted supply of an energy source - LOLE (Loss of load expectation)

Category	2020	2021	2022	Target Value	Target Year
Power system: LOLE (Loss of load expectation) [h]	2.3.1				
Power system: EENS (expected energy not served) [MWh]	2.3.2				
Gas system: result of the N-1 formula [%]	2.3.3				
Methodological notes	2.3.4				

Figure 5: webform for Annex V table 2.3

Guidance, including format of the data

Member States should report data from the most recent adequacy assessment made for the relevant year. For example, they should report the LOLE for the year X-1 as estimated either in year X-1, X-2 or earlier. The year in which the resource adequacy assessment was performed should be reported under Methodological notes.

To be calculated in accordance with the requirements of Regulation (EU) 2019/941 of the European Parliament and of the Council of 5 June 2019 on risk-preparedness in the electricity sector and repealing Directive 2005/89/EC (OJ L 158, 14.6.2019, p. 1) and of Regulation (EU) 2019/943 of the European Parliament and of the Council of 5 June 2019 on the internal market for electricity (OJ L 158, 14.6.2019, p. 54). The specific methodology is set by the Agency for the Cooperation of Energy Regulators, in the Annex I of its decision on the Methodology for calculating the value of lost load, the cost of new entry, and the reliability standard.

X-3, X-2 and X-1 fields

Data format: number

Target value / year field

Data format: number

Member States to report the value of the target and the relevant year the target should be achieved, where quantified targets associated with the metrics are present.

Level of obligation

Mandatory, if applicable

4.1.4. Table 2.3.2: Development of the ability to cope with constrained or interrupted supply of an energy source - EENS (expected energy not served)

Guidance, including format of the data

Member States should report data from the most recent adequacy assessment made for the relevant year. For example, they should report the LOLE for the year X-1 as estimated either in year X-1, X-2 or earlier. The year in which the resource adequacy assessment was performed should be reported under Methodological notes.

To be calculated in accordance with the requirements of Regulation (EU) 2019/941 of the European Parliament and of the Council of 5 June 2019 on risk-preparedness in the electricity sector and repealing Directive 2005/89/EC (OJ L 158, 14.6.2019, p. 1) and of Regulation (EU) 2019/943 of the European Parliament and of the Council of 5 June 2019 on the internal market for electricity (OJ L 158, 14.6.2019, p. 54). The specific methodology is set by the Agency for the Cooperation of Energy Regulators, in the Annex I of its decision on the Methodology for calculating the value of lost load, the cost of new entry, and the reliability standard.

X-3, X-2 and X-1 fields

Data format: number

Target value / year field

Data format: number

Member States to report the value of the target and the relevant year the target should be achieved, where quantified targets associated with the metrics are present.

Level of obligation

Mandatory, if applicable

4.1.5. Table 2.3.3: Development of the ability to cope with constrained or interrupted supply of an energy source - Result of the N-1 formula

Guidance, including format of the data

Member States should report data from the most recent adequacy assessment made for the relevant year. For example, they should report the LOLE for the year X-1 as estimated either in year X-1, X-2 or earlier. The year in which the resource adequacy assessment was performed should be reported under Methodological notes.

To be calculated in accordance with the requirements of Annex II, Regulation (EU) 2017/1938 of the European Parliament and of the Council of 25 October 2017 concerning measures to safeguard the security of gas supply and repealing Regulation (EU) No 994/2010 (OJ L 280, 28.10.2017, p. 1). The N-1 rule calculates the technical capacity of the remaining infrastructure in case of disruption of the single largest gas infrastructure element, estimating whether this is able to satisfy gas needs equal to a day of exceptionally high demand that occurs with probability of once in 20 years.

X-3, X-2 and X-1 fields

Data format: number

Target value / year field

Data format: number

Member States to report the value of the target and the relevant year the target should be achieved, where quantified targets associated with the metrics are present.

4.1.6. Table 2.3.4: Methodological notes

Guidance, including format of the data

Member States may provide further methodological information regarding the indicators listed in this part of the table.

Data format: free text, max. len 800, lines.

Level of obligation

Mandatory, if applicable

4.1.7. Table 2.4: Nationally set objectives and targets – quantifiable indicators

aa quantifiable indicator

Indicator *	Report Data			2.4.1	50
Unit *				2.4.2	30
				Target Year *	2.4.3
2020 *	2.4.3a	2021 *	2.4.3b	2022 *	2.4.3c
				Target Value *	2.4.5
	Methodological notes *				2.4.6

Figure 6: webform for Annex V table 2.4

This webform can be used to specify any quantifiable indicators (in accordance with Table 2) related to nationally set objectives and targets reporting in Table 1.

Guidance, including format of the data

Field 2.4.1: Indicator

Member States need to provide a name for the indicator.

Data format: text, 50 chars.

Field 2.4.2: Unit field

Data format: text, 30 chars.

Field 2.4.3a/b/c: X-3, X-2 and X-1 fields

Data format: number

Field 2.4.3 & 2.4.5: Target value / year field

Data format: number

Member States to report the value of the target and the relevant year the target should be achieved, where quantified targets associated with the metrics are present.

Field 2.4.6: Methodological notes field

Data format: free text, max 400 chars, lines 10.

Member States to provide further methodological information regarding the indicator.

Level of obligation

Mandatory, if applicable

5. Annex V, Table 3: Progress towards implementation of non-quantifiable national objectives and targets

<Target/objective name> non-quantifiable indicator

Indicator/Milestone *	3.1	50
Description *	3.2	2000 ?
Target year *	3.3	
Progress Status *	3.4	2000 ?
Details concerning the monitoring strategy	3.5	120 ?
Reference to assessments and underpinning technical reports	3.6	120

6. Add Cancel

Figure 7: webform for Annex V table 3

6.1.1. FIELD 3.1: Indicator(s)/Milestone(s)

Purpose

The purpose of this field is for the Member State to record the indicators and milestones set by the Member State in line with the target/ objective.

Guidance, including format of the data

Member States are required to report on the indicators/milestones set to monitor progress against implementation. The indicators/milestones might be one or more for each target/objective.

Data format: text; 50 chars.

Level of obligation

Mandatory

6.1.2. FIELD 3.2: Description of indicator/milestone

Purpose

The purpose of this field is for the Member State to give context on the national target/ objective and describe the aim.

Guidance, including format of the data

The description have to provide a condensed explanation of the indicators/milestone as specific as possible.

Member States have to provide details on the indicators/milestone and why this has been chosen to present progress with the objective.

The following questions should be answered in the short description:

- Which problem is the national target/ objective addressing?
- What is the aim of the national target/ objective?

Please make appropriate use of the references/links to direct users to documents and websites with a more detailed description of the national target/ objective.

Data format: text; 2000 chars; 8 rows

Level of obligation

Mandatory

6.1.3. FIELD 3.3: Target year

Purpose

The purpose of this field is for the Member State to identify the reference year by which the target must be achieved.

Guidance, including format of the data

Member States have to provide the target year set, if available.

Data format: number (drop-down)

Level of obligation

Mandatory, if applicable (i.e. Member States are required to provide the information if the relevant national objectives and targets have been set for a target year).

6.1.4. FIELD 3.4: Progress towards target / objective

The purpose of this field is for the Member State to report on progress towards implementation of the national objective or target. The progress should clearly describe the timeframe and should refer to the most recent data available.

Guidance, including format of the data

Member States have to provide an update on the progress achieved up to the current situation.

Member States have to provide qualitative information to summarise the current status of the indicator (for example whether it is on track, already achieved, missed, delayed, etc.).

Progress made towards implementation of non-quantifiable national objectives and targets can be reported by providing an update on the progress made towards a specific indicator and by explaining which policies or actions have been put in place which will

support the implementation of the target and how these policies and actions are performing against set milestones.

Data format: text; 2000 chars; 8 rows

Level of obligation

Mandatory

6.1.5. FIELD 3.5: Details concerning the monitoring strategy

Purpose

The purpose of this field is for the Member State to capture any further details concerning the monitoring strategy for the objective implementation.

Guidance, including format of the data

The Member States have to outline the monitoring strategy and include details about how the indicator is monitored, for example via a set of indicators, via an expert review, via a panel, via a specific methodology and so on.

Data format: text; 120 chars; 3 rows;

Level of obligation

Voluntary

6.1.6. FIELD 3.6: Reference to assessments and underpinning technical reports

Purpose

The purpose of this field is for the Member State to record a reference to assessments and underpinning technical reports

Guidance, including format of the data

This is a free text box where Member States have to include further documentation references in order to support the information entered in all previous field and especially the evaluation of progress towards the implementation of target/objective.

Data format: text; 120 chars; 3 rows.

Level of obligation

Voluntary